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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/812,630	03/30/2004	Lelia Cosimbescu	87000AEK	3465

7590

11/15/2005

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EXAMINER

GARRETT, DAWN L

ART UNIT

PAPER NUMBER

1774

DATE MAILED: 11/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

10

Office Action Summary	Application No. 10/812,630	Applicant(s) COSIMBESCU ET AL.	
	Examiner Dawn Garrett	Art Unit 1774	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 29 August 2005.
 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-16 and 18-29 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) ☒ Claim(s) 7,13,14,16 and 29 is/are allowed.
 6) ☒ Claim(s) 1-6,8-12,25-28,30 and 31 is/are rejected.
 7) ☒ Claim(s) 15 and 18-24 is/are objected to.
 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
 10) ☒ The drawing(s) filed on 30 March 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☐ All b) ☐ Some * c) ☐ None of:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>8-18-05</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

1. This Office action is responsive to the amendment dated August 29, 2005. Claims 1, 7, 13, 1622, 23, 27 and 29 have been amended. Claim 17 is canceled.
2. The objection to claim 18 set forth in the last Office action (mailed May 25, 2005), paragraph 1, is withdrawn due to the amendment.
3. The rejection of claims 1, 28, 30 and 31 under 35 U.S.C. 102(a) as being anticipated by Suzuki et al. (WO 2004/020372 A1) as set forth in the last Office action, paragraph 3, is withdrawn due to the amendment.
4. The rejection of claims 2-6, 8-12, 25, and 26 under 35 U.S.C. 103(a) as being unpatentable over Suzuki et al. (WO 2004/020372 A1) as set forth in the last Office action, paragraph 5, is withdrawn due to the amendment.
5. The indication of allowable subject matter with regard to claim 17 set forth in the last Office action is withdrawn.

Claim Objections

6. Claims 15 and 27 are objected to because of the following informalities:
 - a. In claim 15, it appears that the last recited compound should be listed before the words "combination thereof".
 - b. In claim 27, "1-" should be changed to "1".Appropriate correction is required.

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

8. Claims 1-6, 8-12, 25- 28, 30, and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suzuki et al. (WO 2004/020372 A1). Suzuki et al. disclose organic electroluminescent devices comprising an anode, a cathode and one or more layers containing a compound between the electrodes (see claim 6). The at least one luminescent layer comprises a host fluorene compound and a compound according to formula [XV] wherein Ar₂₅ and Ar₂₆ may be a substituted or unsubstituted aromatic group or fused polycyclic aromatic group. The variable “t” in the formula may be 1 (see claim 13, pages 81-82). Suzuki et al. clearly discloses compounds according to present claim 1, formula 1, disposed in a luminescent layer of an organic electroluminescent device (see abstract, claims 6 and 13). With regard to the new limitation in claim 1 requiring a third material that emits light, Suzuki et al. teaches that “*at least one* fluorene compound” may be used (see page 16, lines 1-8 and page 35, lines 11-16). It would have been obvious to one of ordinary skill in the art to have incorporated a second light-emitting fluorene compound in any ratio with a first fluorene compound (per the “third material” and also per claim 27) in a layer of the device, because Suzuki et al. generally teaches more than one fluorene compound may be used at a time. Suzuki et al. fails to exemplify or to specify the substituents set forth in claims 2-6 and 8-12. It would have been obvious to one of ordinary skill in the art at the time of the invention to have made compounds according to claims 2-6 and 8-12,

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because Suzuki et al. clearly teaches the Ar substituents of formula XV may be the same or different and include substituted or unsubstituted aromatic groups and fused polycyclic aromatic groups which encompass the specific substituents of claims 2-6 and 8-12. Suzuki et al. fails to exemplify a device comprising the fluorene host and the formula XV compound in a layer in specific amounts. Suzuki et al. does in show example 23 (see page 56) that arylamine is added to the fluorene compound at a ratio of 100:1 fluorene compound to arylamine compound. It would have been obvious to one of ordinary skill in the art at the time of the invention to have also incorporated formula XV in the same ratio to fluorene compound in a fluorescent layer as the arylamine of example 23, because Suzuki et al. generally teaches formula XV is a similar additive to the luminescent layer as the arylamine compounds.

Allowable Subject Matter

9. Claims 7, 13, 14, 16 and 29 are allowed. (Claim 15 contains allowable subject matter, but stands objected to for a minor informality). Claims 18-24 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The prior art fails to teach a device comprising formula (1) with a host material in a device layer comprising the properties and further components as required by claims 13-16, 18-24, and 29.

Response to Arguments

10. Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground of rejection.

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Conclusion

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dawn Garrett whose telephone number is (571)272-1523. The examiner can normally be reached Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena Dye can be reached at (571) 272-3186. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Dawn Garrett
Primary Examiner
Art Unit 1774

November 8, 2005